Kompernaß GmbH
Burgstraße 21
D-44867 Bochum (Germany)

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2-SPEED **HAMMER ACTION DRILL**

GB IE **2-SPEED HAMMER ACTION DRILL**
Operation and Safety Notes

GB IE Before reading, unfold the page containing the illustrations and familiarise yourself with all functions of the device.

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PARKSIDE
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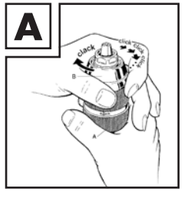
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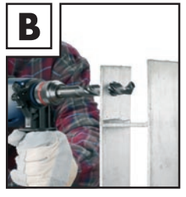
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The following icons / symbols are used in this instruction manual:			
	Read instruction manual!		Do not expose the appliance to rain or moisture. The permeation of liquids into electrical appliances increases the risk of receiving an electric shock.
	Observe caution and safety notes!		Wear ear protectors. Wear a dust mask. Wear protective gloves. Wear protective glasses.
	Caution – electric shock! Dangerous electric current – danger to life!		Protection category II power tool; double insulated
	Proper procedure and handling.		Keep children and uninvolved other third parties at a distance when using electrical power tools.
n_0	Design no-load speed		Damaged appliances, power cables and power plugs mean potentially fatal risks from electric shock. Regularly check the condition of the appliance, the power cable and the power plug.
V~	Voltage		Dispose of packaging materials and the appliance in an environmentally responsible manner!
W	Watt (performance)		

2-speed hammer action drill PSBM 1100

Introduction

Your safety

Please make sure you familiarise yourself fully with the way the tool works before you use it for the first time and that you understand how to handle electrical power tools correctly. Further details can be found in the operating instructions. In addition to the above, you must also observe the general safety advice contained in the accompanying booklet. Keep these instructions in a safe place. If you pass the tool on to anyone else, please ensure that you also pass on all the documentation.

Proper use

The tool is intended for hammer drilling into brick, concrete and stone as well as drilling into wood, metal, ceramics and plastic. The clockwise / counter clockwise rotation facility also allows the tool to be used as a driver. Any other use or modification to the tool shall be considered as improper use and could give rise to considerable dangers. The manufacturer will not accept liability for loss or damage arising from improper use.

Features

1 Drill / hammer drill action switch
2 Ventilation slots
3 On / Off switch
4 Locking button
5 Speed preselector wheel
6 Rotation direction switch

7 Gear selector switch
8 Auxiliary handle
9 Quick-release chuck RÖHM
10 Depth stop

Parts that can be replaced by the user:
a) Auxiliary handle
b) Depth stop

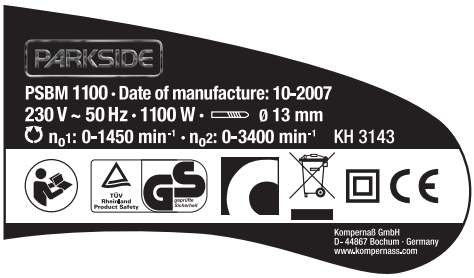
If these parts become damaged or lost please contact the service centre for your country in order to replace them. For safety reasons, this applies especially to the auxiliary handle as this device may be used only with the auxiliary handle.

Included items

1 Hammer action drill PSBM 1100
1 Auxiliary handle
1 Depth stop
1 Carrying case
1 Operating instructions
1 Booklet containing „General safety advice"
1 Booklet covering „Warranty and service"

Technical information

Nominal voltage:	230 V ~ 50 Hz
Nom. power input:	1100 watts
No load speed:	Clockwise:
	1st gear 0 - 1450 rpm
	2nd gear 0 - 3400 rpm
Impact cycles:	max. 51.000 / min
Chuck capacity:	max. ø 13 mm
Drill ø – wood:	max. 32 mm
Drill ø – Forstner:	max. 50 mm
Drill ø – masonry:	max. 30 mm
Drill ø – concrete:	max. 25 mm
Drill ø – steel:	max. 13 mm
Protection class:	II / ⧈
Hand / arm vibration:	11 m / s²


PARKSIDE
PSBM 1100 · Date of manufacture: 10-2007
230 V ~ 50 Hz · 1100 W · ø 13 mm
n01: 0-1450 min-1 · n02: 0-3400 min-1 KH 3143
Kompernaß GmbH
D - 44867 Bochum · Germany
www.kompernass.com

Noise / Vibration data

Values determined in accordance with EN 60745. The sound pressure level (A-weighted) of the device is typically 96 dB (A). Uncertainty K = 3 dB. The sound level while working can exceed 109 dB (A).

Wear ear protection!

Total vibration (vector sum of three directions) is calculated in accordance with EN 60745:

Drilling in metal:
Vibration emission value $a_{h,D} = 3{,}2\ m/s^2$
Uncertainty $K = 1{,}5\ m/s^2$

Hammer-action drilling in concrete:
Vibration emission value $a_{h,ID} = 19{,}313\ m/s^2$
Uncertainty $K = 1{,}5\ m/s^2$

Warning! The vibration level given in these instructions has been measured in accordance with a standardised measurement procedure specified in EN 60745 and can be used to compare devices. Different uses of the device give rise to different vibration levels and in many cases they may exceed the values given in these instructions. It is easy to underestimate the vibration load if the electrical power tool is used regularly in particular circumstances.

Safety

Safety advice relating specifically to this device

- Keep children away from the device. Store the device indoors in an enclosed, dry place where it cannot be reached by children.

To avoid danger to life from electric shock:

- Frequently check the condition of the device, mains lead and plug. Do not use the device if these kinds of parts are damaged. Never open up the device. Always have any repairs carried out or replacement parts fitted at the service centre or by an electrical equipment repair specialist. A damaged device, mains lead or plug presents a serious danger to life from electric shock.
- Have repairs carried out only by an electrician or your service centre.
- Do not touch the mains lead if it becomes damaged or cut through while you are using the device. Pull the plug out of the mains socket immediately and have the device repaired by a suitably qualified person or at your service centre.
- Do not operate the device if it is damp and do not use it in a damp environment.
- If you use the device outdoors, always connect it through a residual current device (RCD) with a maximum trip current of 30 mA. If using an extension lead, always use one that is approved for outdoor use.
- Do not use the device in rain or in wet conditions.
- Do not work in areas where there may be hidden electricity cables or gas or water pipes. Use a suitable detector or ask your local utility service providers. Contact with electricity cables can lead to fire or electric shock. Damaging a gas pipe can lead to an explosion. Penetration of a water pipe can lead to property damage or to electric shock.

Attention! To avoid the risk of injury:

- Wear protective glasses, hearing protection (noise can lead to hearing loss), dust protection mask and protective gloves. Please note that working on stone or metal can give rise to hazardous dusts that can adversely affect your health.
- Be particularly careful when screwing in longer screws - the driver could slip off the screw head.
- Use the auxiliary handle supplied with the device. Loss of control of the tool can lead to injury.
- Securely support the workpiece. Use clamps or a vice to grip the workpiece firmly. This is much safer than holding it in your hand and it means you then have both hands free to operate the electrical power tool.

Working safely!

- If a dangerous situation arises, pull the mains plug immediately out of the mains socket.
- Never use the device for a purpose for which it was not intended.

- Before you insert the mains plug into the socket, always check that the device is switched off.
- Always keep proper footing and balance.
- When taking a break from your work, before carrying out any tasks on the device itself and when you are not using the device, always pull the mains plug out of the mains socket.
- Handle the device carefully and treat it with respect. Always keep the device clean, dry and free of oil or grease.
- Remain alert at all times! Always watch what you are doing and proceed with caution.
- Do not use the device if you cannot concentrate or you are feeling unwell.

Preparing for first use

Attaching the auxiliary handle

For reasons of safety, this device must be used only with the auxiliary handle 8 in place and properly attached.
It is essential that you note the following: if the drill becomes jammed, a very large torque can be generated („the force that the machine will exert to rotate about its own shaft").

- Attach the auxiliary handle 8 to the spindle collar and fix in place by tightening the wing screw. Attach the depth stop 10. This will help you to drill to the exact depth required.

Inserting a tool into the chuck

Caution! Before starting any tasks on the hammer drill, make sure that it is switched off and the mains plug is out of the socket.
The RÖHM quick-release drill chuck allows you to exchange drills or other tools without using a special key etc.

Opening the chuck and inserting a tool

- Hold the rear shell of the quick-release chuck 9 and turn the front shell until the tool (e.g. a roundshanked drill) can be inserted. Insert the tool.

Tightening the chuck on to the tool

- Hold the rear shell of the quick-release chuck 9 and turn the front shell sharply until you hear a „click – clack, clack, clack" sound (refer to Figure A). The chuck is now locked. To release the lock again, just turn the front shell in the opposite direction.

Using the tool as a driver

- You will require a suitable bit holder if you wish to use screwdriver bits with the drill.
  The screwdriver bits used must be match the screw head. Set the switch 1 a to the drill symbol.

Operation

Figures B-H show the various possible applications and uses.
Examples of applications and uses. Drill bits not included.

The mains voltage at the mains socket must match that shown on the rating plate on the device.
Devices marked with 230 V can also be operated at 220 V.

Switching on and off

Switch on intermittent operation mode:
- Press the On / Off switch 3.

Switch off intermittent operation mode:
- Release the On / Off switch 3.

Switch on constant operation mode:
- Press the On / Off switch 3, and keep it pressed, then press the locking button 4.

Switch off constant operation mode:
- Press the On / Off switch 3 and release it.

Infinitely adjustable speed setting

To produce a slow speed, just press lightly on the On / Off switch 3. This allows you to start up your operations smoothly and in a controlled manner.
If you increase the pressure on the On / Off switch 3, the speed will also increase.

Preselecting the rotation speed

You can preselect the required speed using the speed preselector wheel 5.

- You can increase or decrease the speed by turning the speed preselector wheel. The most suitable speed depends on the material involved. We recommend that you carry out a few practical tests beforehand.

Tip: You will always find these two basic guidelines helpful:

1. Large drill diameter = lower speed whilst smaller drill diameter = higher speed
2. Hard material = lower speed

Selecting the direction of rotation

Caution! Only change the position of the rotation direction switch after the tool has come to a standstill.

- Set the direction you wish the drill to rotate by using the rotation direction switch 6.

Note: The tool operates at lower speeds when rotating in the counter clockwise direction.

Selecting the gear

Caution! The gear selector switch must only be moved after the drill has come to a standstill.

- Select between the following speed ranges using the gear selector switch 7:

1 = low speed range
2 = high speed range

Selecting drill / hammer drill action

Caution! Only change the setting of the drill / hammer drill action switch after the tool has come to a standstill.

- Select the appropriate operating mode using the drill / hammer action selector switch 1:

Drilling:

- Set the switch 1 to the right on to the drill symbol.

Hammer drilling:

- Set the switch 1 to the left on to the hammer symbol.

Note: The hammer drill action mode is intended for drilling into brick, concrete and stone only.

Maintenance and cleaning

Attention! Before carrying out any tasks on the device itself and when you are not using the device, always pull the mains plug out of the mains socket.

The device is largely maintenance-free.

- Always keep the device and the ventilation slots clean.
- Clean the device frequently. For best results, clean the device immediately after you have finished using it.
- Do not allow any liquids to enter the device. Use a soft cloth to clean the device.
- Do not under any circumstances use petrol or strong solvents.
- Store the device in a dry room.

Disposal

The packaging is wholly composed of environmentally-friendly materials that can be disposed of at a local recycling centre.

Do not dispose of electrical tools with household rubbish!

In accordance with European Directive 2002/96/EC (covering waste electrical and electronic equipment) and its transposition into national legislation, worn out electrical tools must be collected separately and taken for environmentally compatible recycling. Contact your local refuse disposal authority for more details of how to dispose of your worn out electrical devices.

Information

Service centre

The service centre for your country is shown in the warranty documentation.

Manufacturer's declaration of conformity CE

We, Kompernaß Handelsgesellschaft mbH, Burgstr. 21, D-44867 Bochum, Germany, hereby declare that this product complies with the requirements of the following EU directives:

EC machine guideline: (98 / 37 / EC)

Low voltage regulations: (2006 / 95 / EG)

Electromagnetic compatibility: (89 / 336 / EEC)

Type / Description of product:
2-speed hammer action drill PSBM 1100

Bochum, 31.08.2007

Hans Kompernaß
-Managing Director-

We reserve the right to make technical modifications and changes to the appearance of the device in the course of further development without notice. Hence no responsibility is accepted for any information such as dimensions, instructions etc. This does not affect your legal rights.